

Application No. 09/928,610

In the Claims

1. (Currently Amended) A communication hub comprising:

a control system configured to switch between either a configuration mode ~~and~~ or an operation mode, wherein responsive to switching to the configuration mode the control system is configured to receive a registration request from an unauthorized communication device and process the registration request to automatically authorize the communication device for use with the communication hub, and wherein responsive to switching to the operation mode the control system is configured to control an exchange of communications between a plurality of previously authorized communication devices, the newly authorized communication device, and a network system;

a mode selection interface configured to receive an input from a user that selects either one of the configuration mode ~~and~~ or the operation mode, and process the input to cause the control system to enter the selected one of the configuration mode ~~and~~ or the operation mode; and

an interface system configured to receive the registration request and exchange the communications between the plurality of previously registered communication devices, the newly registered communication device, and a network system.

2. (Original) The communication hub of claim 1 wherein the control system is configured to generate a registration complete message for the newly authorized communication device, wherein the registration complete message causes the newly authorized communication device to indicate to the user that the newly authorized communication device is configured for use with the communication hub.

3. (Original) The communication hub of claim 2 wherein the interface system is configured to provide the registration complete message to the newly authorized communication device.

4. (Original) The communication hub of claim 1 wherein the control system is configured to cause the mode selection interface to indicate to the user that the newly authorized communication device is configured for use with the communication hub.

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5. (Original) The communication hub of claim 1 wherein automatically authorizing the unauthorized communication device for use with the communication hub comprises:

recording the communication device in the in the communication hub as an allowed communication device.

6. (Original) The communication hub of claim 1 wherein automatically authorizing the communication device for use with the communication hub comprises:

processing the registration request to generate a query message for the unauthorized communication device that includes a request for a device identifier and processing a response message from the unauthorized communication device that includes the device identifier to record the device identifier as an allowed communication device in the communication hub.

7. (Original) The communication hub of claim 6 wherein the interface system is configured to provide the query message to the unauthorized communication device and provide the response message to the control system.

8. (Original) The communication hub of claim 6 wherein the control system is configured to process the response message that includes the device identifier to assign a virtual connection for communications exchanged between the newly authorized communication device and the network system.

9. (Original) The communication hub of claim 6 wherein the control system is configured to use the device identifier to identify communication requests made by the newly authorized communication device.

10. (Original) The communication hub of claim 1 wherein the communication device is a wireless communication device.

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11. (Original) The communication hub of claim 1 wherein the communication device is a wireline communication device.

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12. (Currently Amended) A method of operating a communication hub, the method comprising:

receiving an input from a user that indicates a desired one of either a configuration mode ~~and or~~ an operation mode;

processing the input to switch to the desired one of the configuration mode ~~and or~~ the operation mode;

in response to switching to the configuration mode, receiving a registration request from an unauthorized communication device;

in response to receiving the registration request, processing the registration request to automatically authorize the communication device for use with the communication hub; and

in response to switching to the operation mode, exchanging communications between a plurality of authorized communication devices, the newly authorized communication device, and a network system.

13. (Original) The method of claim 12 the method further comprising:

indicating to the user that the communication device is configured for use with the communication hub.

14. (Original) The method of claim 13 wherein the step of indicating to the user comprises:

in response to automatically authorizing the communication device, generating a registration complete message that causes the communication device to indicate to the user that the communication device is configured for use with the communication hub; and

providing the registration complete message to the communication device.

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15. (Original) The method of claim 13 wherein the step of indicating to the user comprises:

in the communication hub, displaying a message for the user that indicates to the user that the communication device is authorized for use with the communication hub.

16. (Original) The method of claim 12 wherein automatically registering the unauthorized communication device comprises:

recording the communication device in the communication hub as an authorized communication device.

17. (Original) The method of claim 16 wherein automatically registering the unauthorized communication device comprises:

processing the registration request to generate a query message that includes a request for a device identifier for the communication device; and

processing a response message from the communication device that includes the device identifier to record the communication device in the communication hub as an authorized communication device.

18. (Original) The method of claim 17 the method further comprising:

processing the response message that includes the device identifier to assign a virtual connection for communications exchanged between the newly authorized communication device and the network system.

19. (Original) The method of claim 17 the method further comprising:

using the device identifier to identify communication service requests from the newly authorized communication device.

20. (Original) The method of claim 12 wherein the communication device is a wireless communication device.

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21. (Original) The method of claim 12 wherein the communication device is a wireline communication device.

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22. (Currently Amended) A software product comprising:

control system software operational when executed on a processor to switch between either a configuration mode ~~and~~ or an operation mode, wherein responsive to switching to the configuration mode the control system is configured to receive a registration request from an unauthorized communication device and process the registration request to automatically authorize the communication device for use with the communication hub, and wherein responsive to switching to the operation mode the control system is configured to control an exchange of communications between a plurality of previously authorized communication devices, the newly authorized communication device, and a network system;

mode selection interface software operational when executed by the processor to receive an input from a user that selects one of either the configuration mode ~~and~~ or the operation mode, and process the input to cause the control system to enter the selected one of the configuration mode ~~and~~ or the operation mode; and

interface system software operational when executed by the processor to receive the registration request and exchange the communications between the plurality of previously registered communication devices, the newly registered communication device, and a network system; and

a software storage medium operational to store the control system software, the mode selection interface software and the interface system software.

23. (Original) The product of claim 22 wherein the control system software is operational to generate a registration complete message for the newly authorized communication device, wherein the registration complete message causes the newly authorized communication device to indicate to the user that the newly authorized communication device is configured for use with the communication hub.

24. (Original) The product of claim 23 wherein the interface system software is operational to provide the registration complete message to the newly authorized communication device.

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25. (Original) The product of claim 22 wherein the control system software is operational to cause the mode selection interface to indicate to the user that the newly authorized communication device is configured for use with the communication hub.

26. (Original) The product of claim 22 wherein the control system software is operational to record the communication device in the in the communication hub as an allowed communication device.

27. (Original) The product of claim 22 wherein the control system software is operational to process the registration request to generate a query message for the unauthorized communication device that includes a request for a device identifier and processing a response message from the unauthorized communication device that includes the device identifier to record the device identifier as an allowed communication device in the communication hub.

28. (Original) The product of claim 27 wherein the interface system software is operational to provide the query message to the unauthorized communication device and provide the response message to the control system.

29. (Original) The product of claim 27 wherein the control system software is operational to process the response message that includes the device identifier to assign a virtual connection for communications exchanged between the newly authorized communication device and the network system.

30. (Original) The product of claim 27 wherein the control system software is operational to use the device identifier to identify communication requests made by the newly authorized communication device.

31. (Original) The product of claim 22 wherein the communication device is a wireless communication device.

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32. (Original) The product of claim 22 wherein the communication device is a wireline communication device.